



**SLOVENSKI STANDARD**  
**oSIST prEN ISO 23445:2020**  
**01-junij-2020**

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**Zobozdravstvo - Instrumenti za posege v tkivo (ISO/DIS 23445:2020)**

Dentistry - Tissue punches (ISO/DIS 23445:2020)

Zahnheilkunde - Gewebestanzten (ISO/DIS 23445:2020)

Médecine bucco-dentaire - Poinçon de tissu (ISO/DIS 23445:2020)

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## Dentistry — Tissue punches

*Médecine bucco-dentaire — Poinçon de tissu*

ICS: 11.060.25

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### Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 106, *Dentistry*, Subcommittee SC 4, *Dental instruments*.

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Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

## Introduction

Tissue punches are dental implant instruments used in conjunction with angled dental handpieces for surgical dental implant procedures such as cutting holes or notches in and removing of gingival tissue.

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# Dentistry — Tissue punches

## 1 Scope

This document specifies requirements and their test methods for tissue punches used with a handpiece in dentistry especially for oral surgical implant procedures such as cutting holes or notches in and removing of gingival tissue. It also specifies the requirements for their marking and labelling.

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 1797, *Dentistry — Shanks for rotary and oscillating instruments*

ISO 1942, *Dentistry — Vocabulary*

ISO 6507-1, *Metallic materials — Vickers hardness test — Part 1: Test method*

ISO 6508-1, *Metallic materials — Rockwell hardness test — Part 1: Test method*

ISO 8325:2004, *Dentistry — Test methods for rotary instruments*

ISO 13504, *Dentistry — General requirements for instruments and related accessories used in dental implant placement and treatment*

ISO 16443, *Dentistry — Vocabulary for dental implants systems and related procedure*

ISO 17664, *Processing of health care products — Information to be provided by the medical device manufacturer for the processing of medical devices*

ISO 21850-1, *Dentistry — Materials for dental instruments — Part 1: Stainless steel*

## 3 Terms, definitions and symbols

### 3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 1797, ISO 1942, ISO 16443 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at <https://www.iso.org/obp>

— IEC Electropedia: available at <http://www.electropedia.org/>

#### 3.1

##### **tissue punch**

instrument for removal of a disk of soft tissue

[SOURCE: ISO 16443:2014, 3.3.8]

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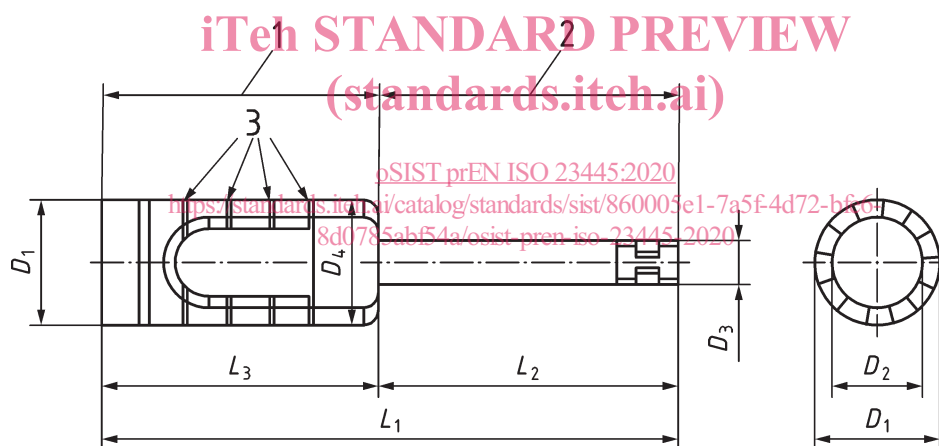
## 3.2 Symbols

$D_1$	outer diameter of working part
$D_2$	inner diameter of working part
$D_3$	diameter of shank
$D_4$	diameter of the operative part
$L_1$	overall length
$L_2$	length of shank
$L_3$	length of operative part

## 4 Classification

For the purpose of this document, tissue punches shall be classified according to the purposes of use into following types:

- Type 1: hollow (Figure 1)
- Type 2: centre-guided (Figure 2)



## Key

- 1 operative part
- 2 shank
- 3 marking lines

Figure 1 — Tissue punch Type 1: hollow